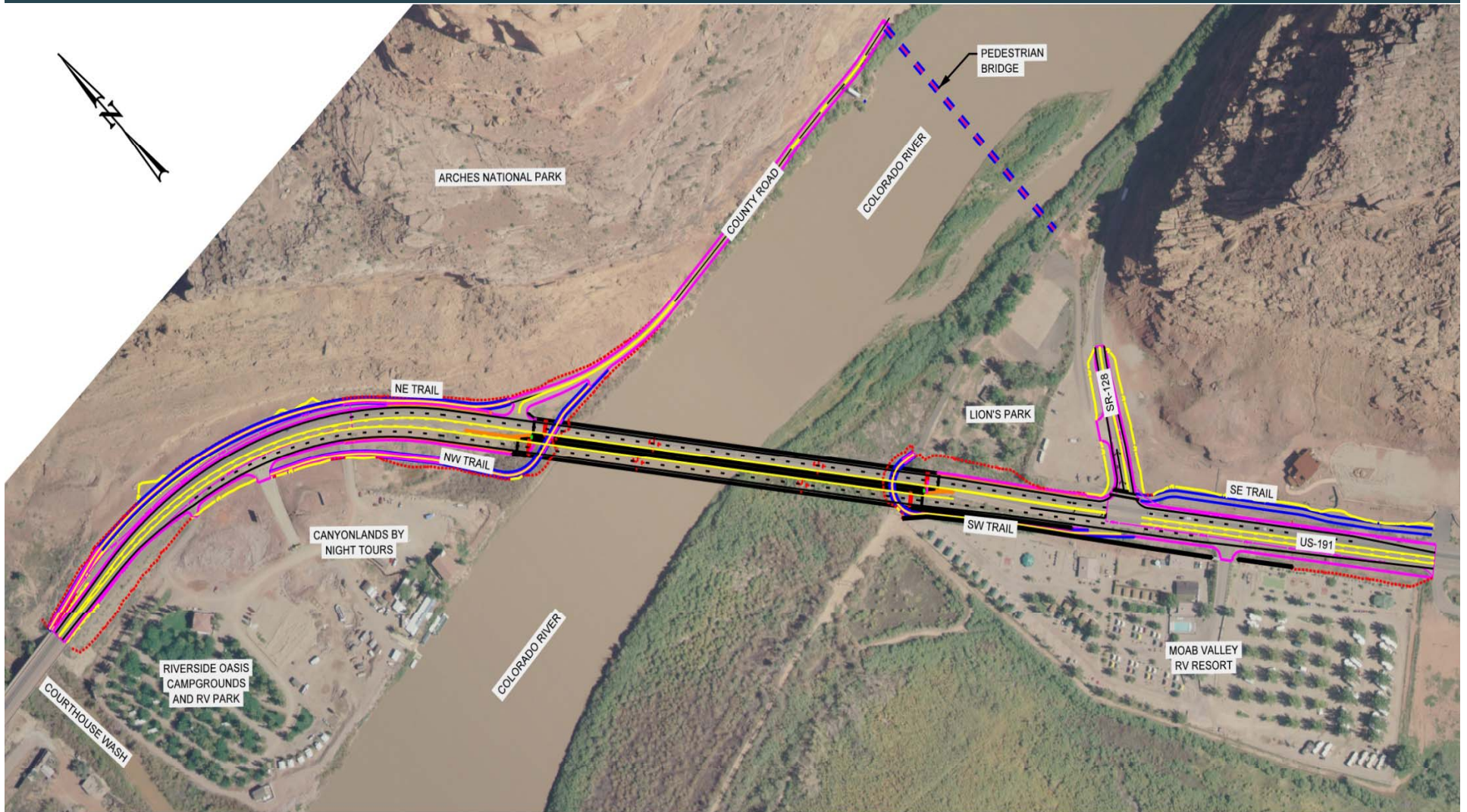


# Project Overview - Roadway



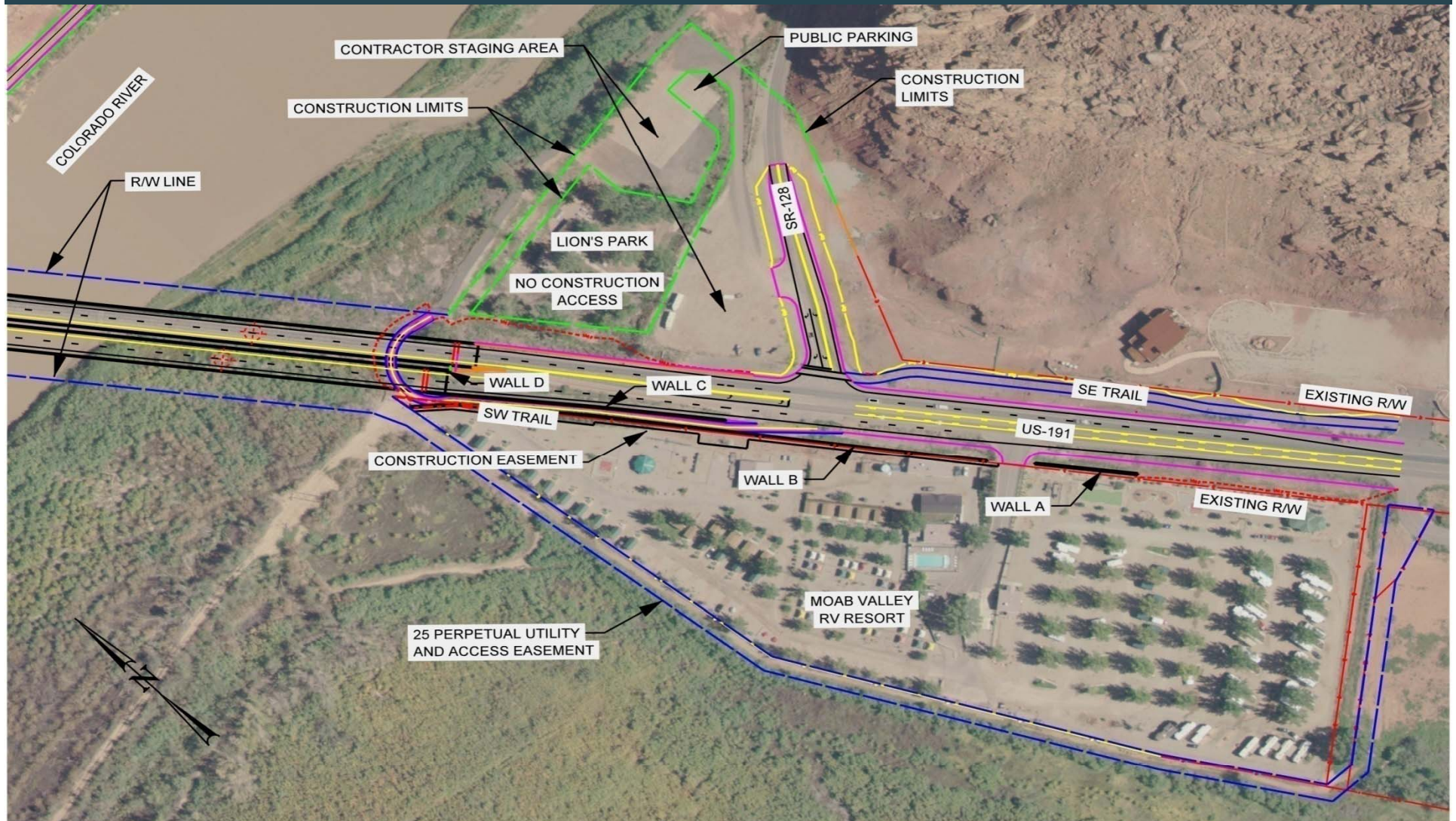
# Roadway

- **US-191**
  - 2 Lane widening to 5 lanes
  - 1400' of widening on either end bridge
- **SR-128**
  - Adding Left Turn Lane
  - 400' of widening
- **Trails**

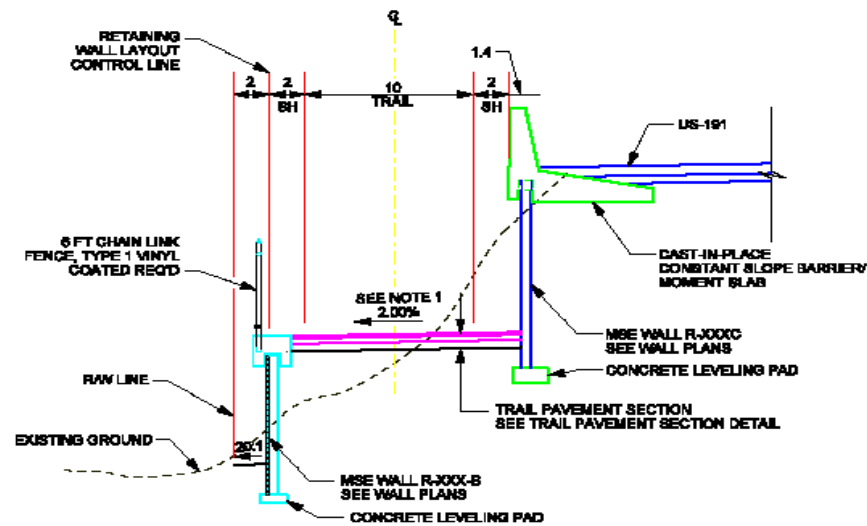




# Roadway – South End



# Roadway – Tiered Retaining Walls

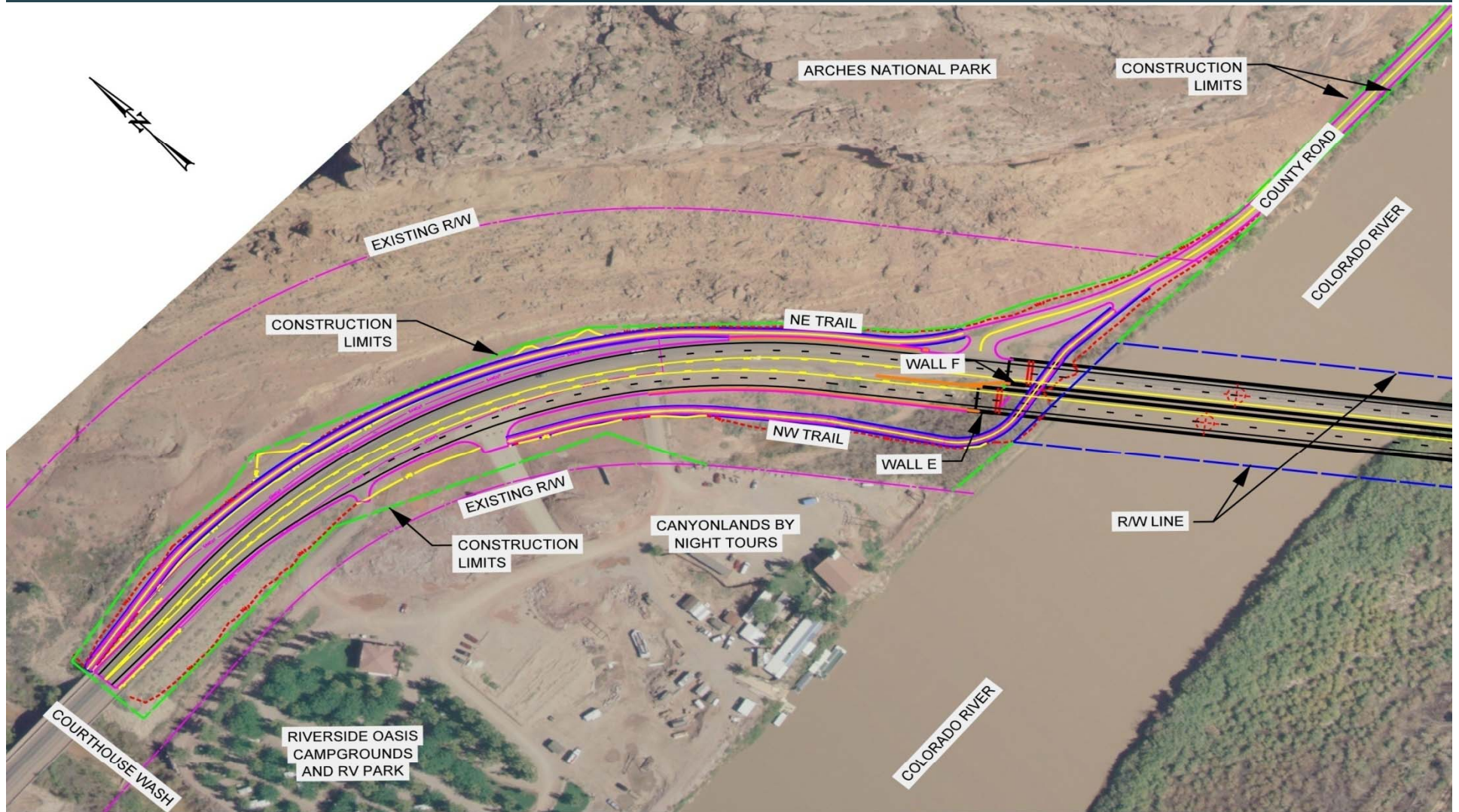


**TRAIL TYPICAL SECTION NO. 3**

NTS

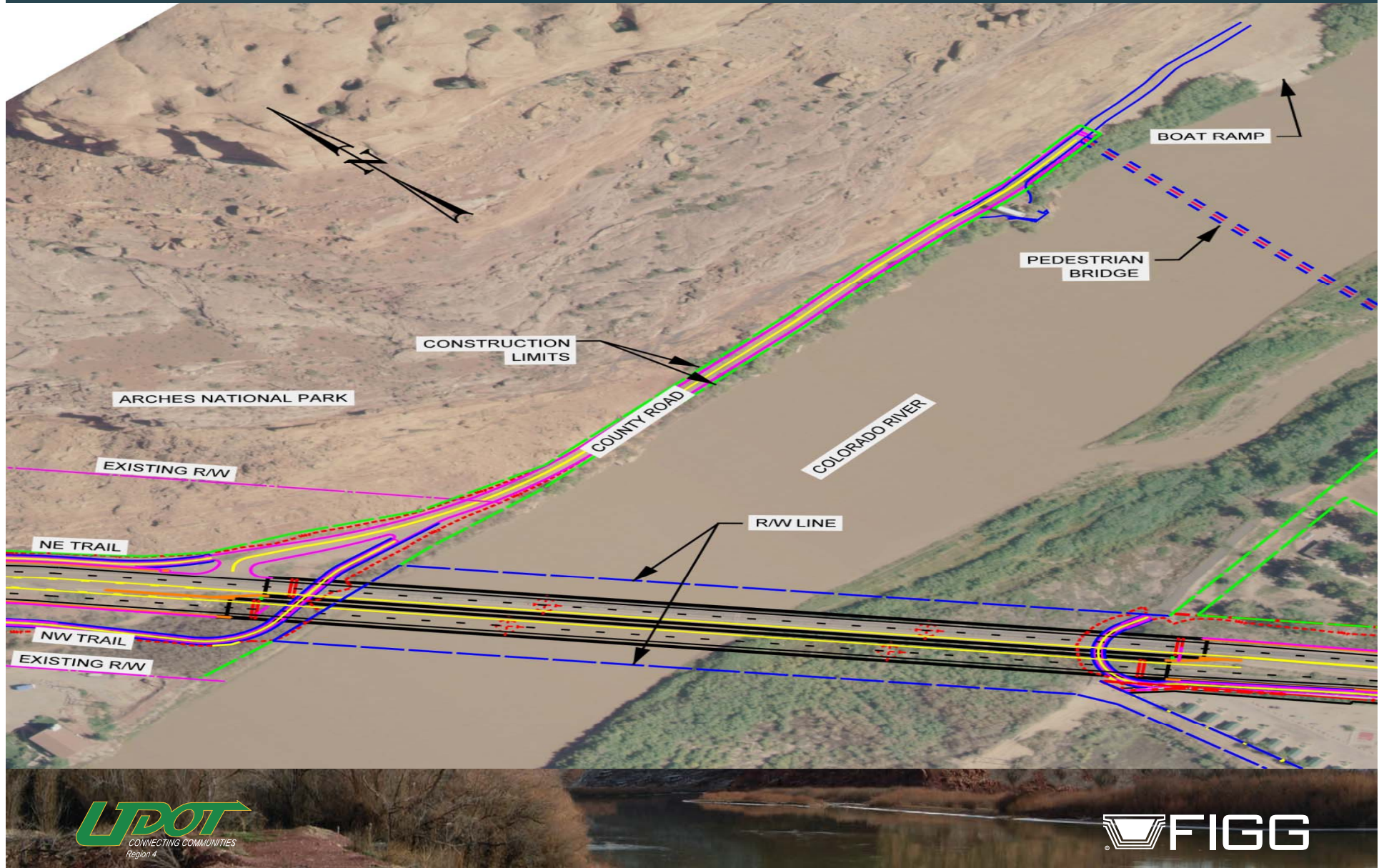


# Roadway – North End



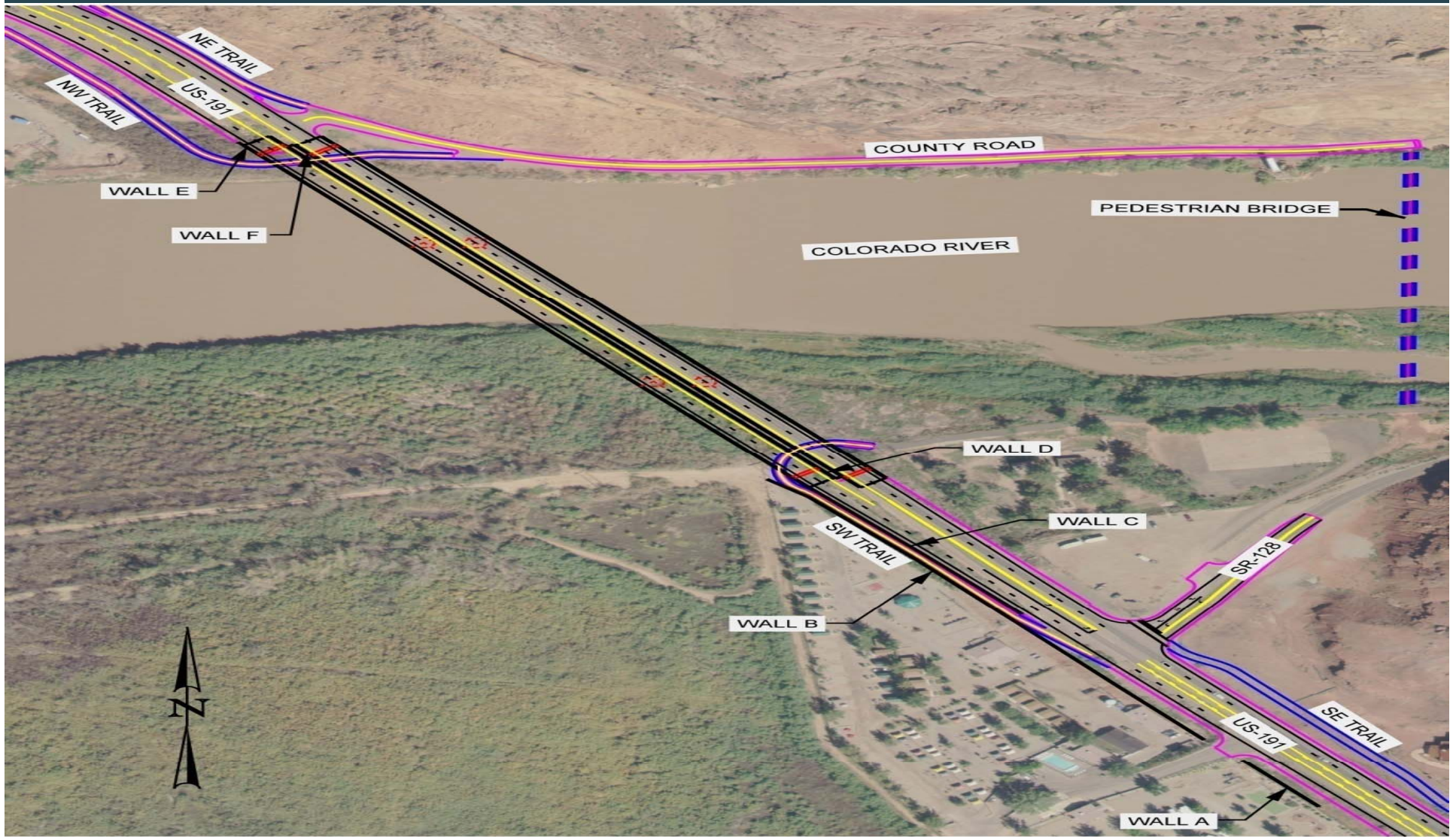


# Roadway – County Road / Trail



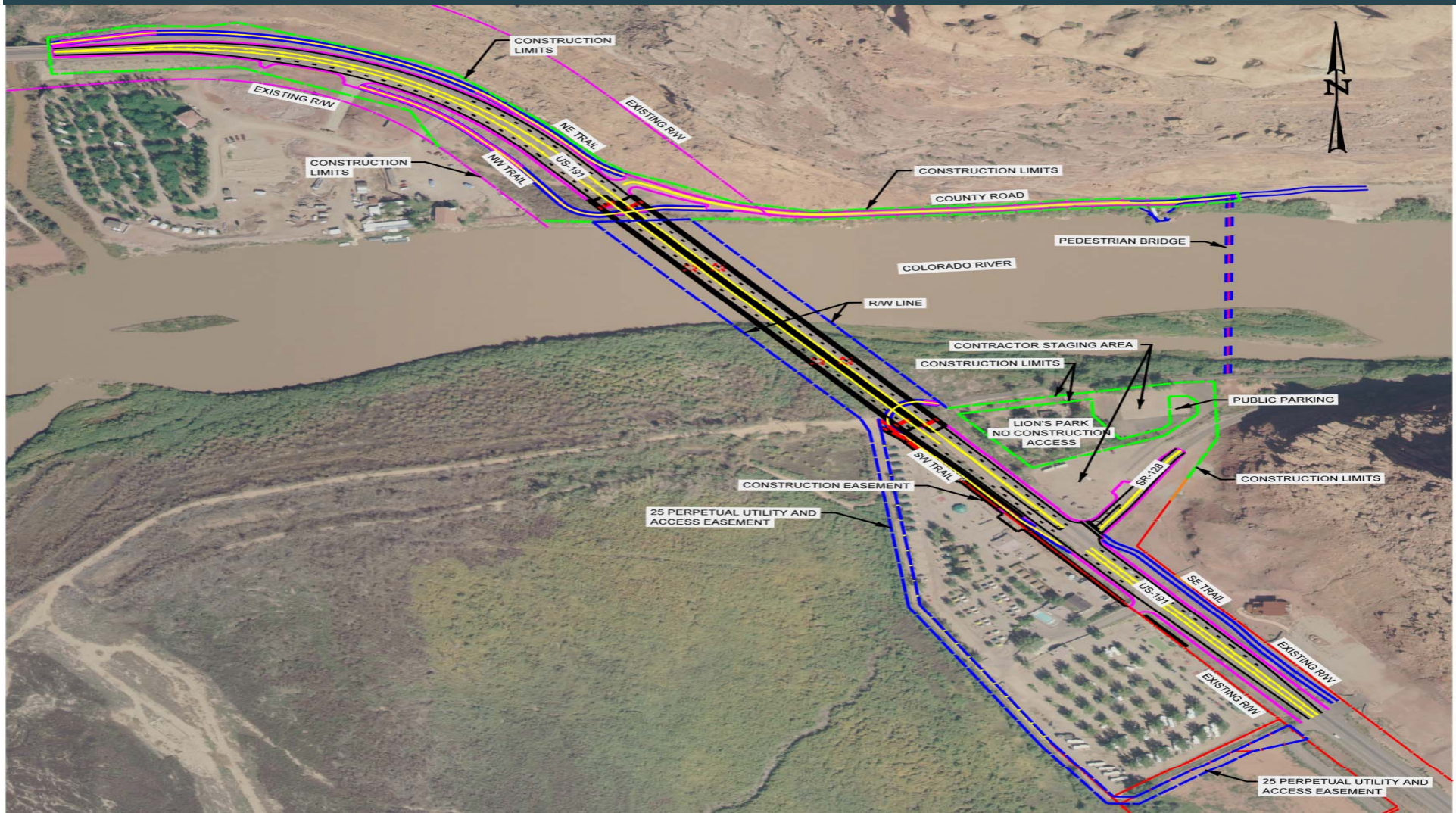


# Retaining Walls



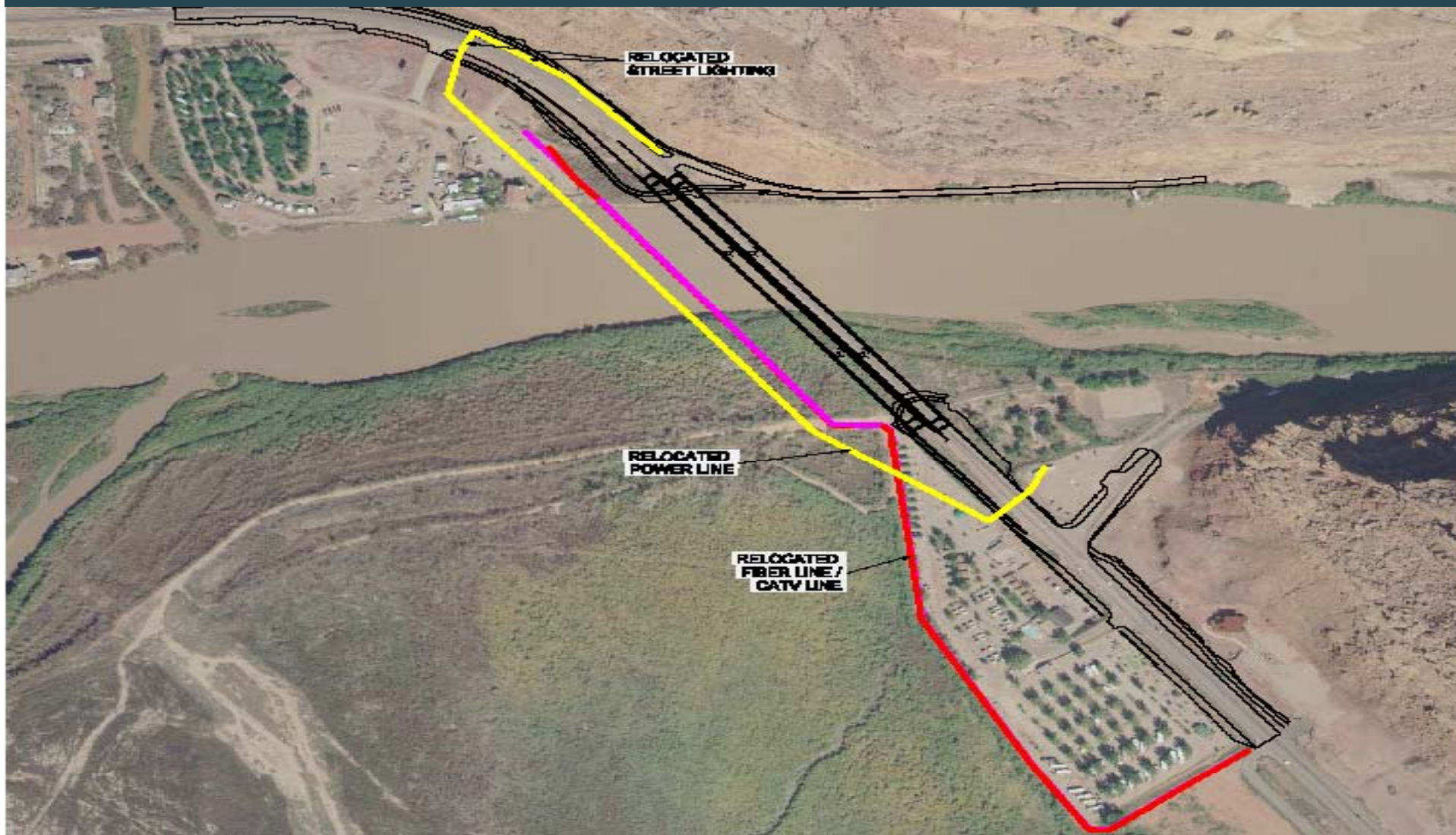


# Construction Access





# Utility Relocations





# Utility Coordination

- **Rocky Mountain Power**
  - Power Line Relocations Complete
  - Street Lighting – To be coordinated when grading is completed
- **Frontier Communications – Fiber / Phone Lines**
- **Preciscom – CATV Lines**





# Project Quantities

• Borrow	9,552	Cu. Yd.
• Embankment For Bridge	10,392	Cu. Yd.
• Excavation	5,041	Cu. Yd.
• UBC	4,330	Ton
• HMA – ¾”	8,416	Ton
• Rotomilling – 2”	2,555	Sq. Yd.
• Pavement Geogrid	16,022	Sq. Yd.
• CIP Constant Slope Barrier	1,297	Ft.
• CIP Moment Slab / Barrier	435	Ft.





# Project Quantities

• Loose iprap	990	Cu. Yd.
• 18" Pipe	1618	Ft
• 24" Pipe	495	Ft
• Catch Basins	19	Each
• MSE Wall (Concrete Panels- Exposed Wall Face)	10,315	Sq. Ft.





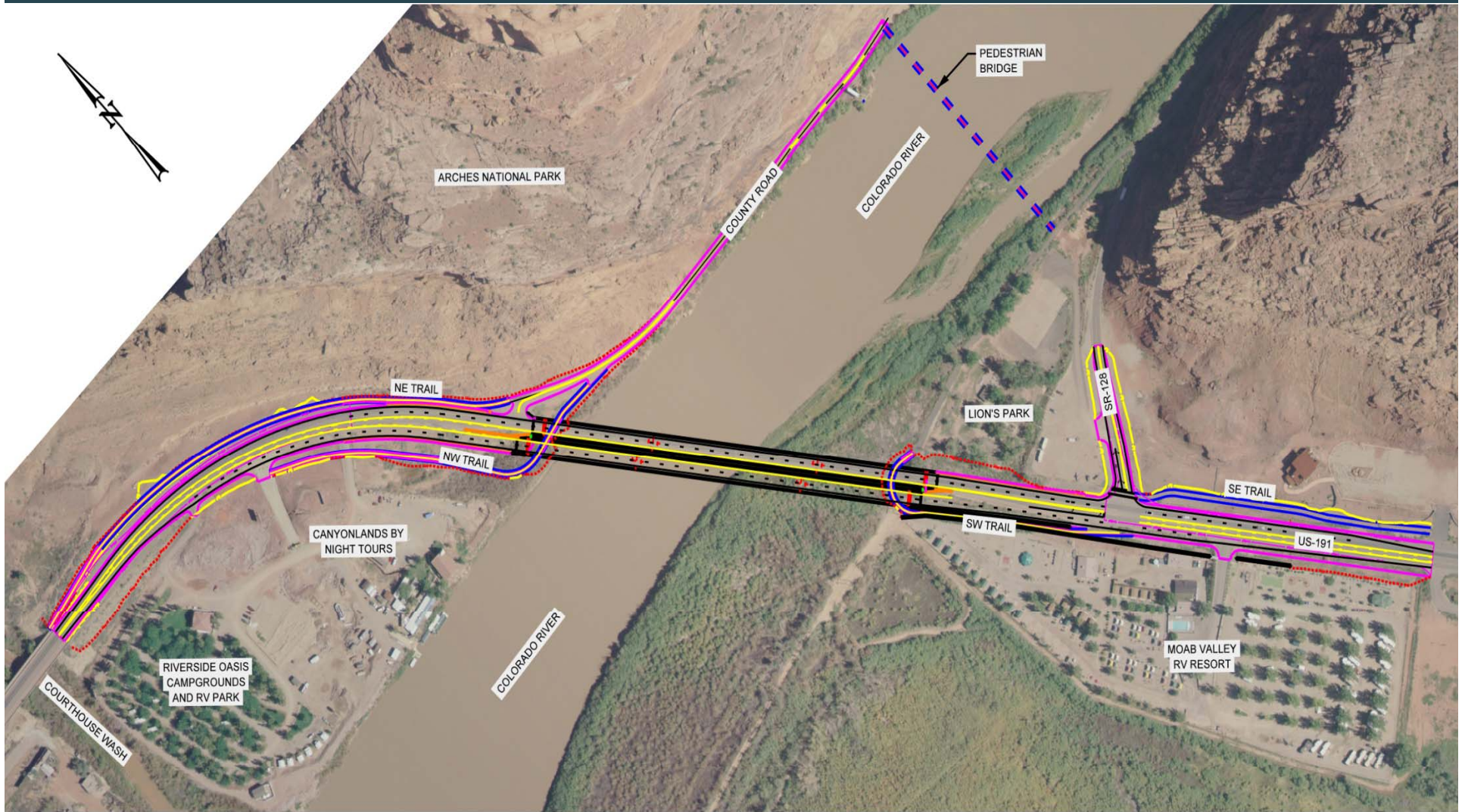
# Environmental Controls

- **Maintain construction within limits – sensitive areas around/within project**
  - Arches National Park
  - Colorado River
  - Lions Park
  - Wetlands
  - Private Property





# Sensitive Areas





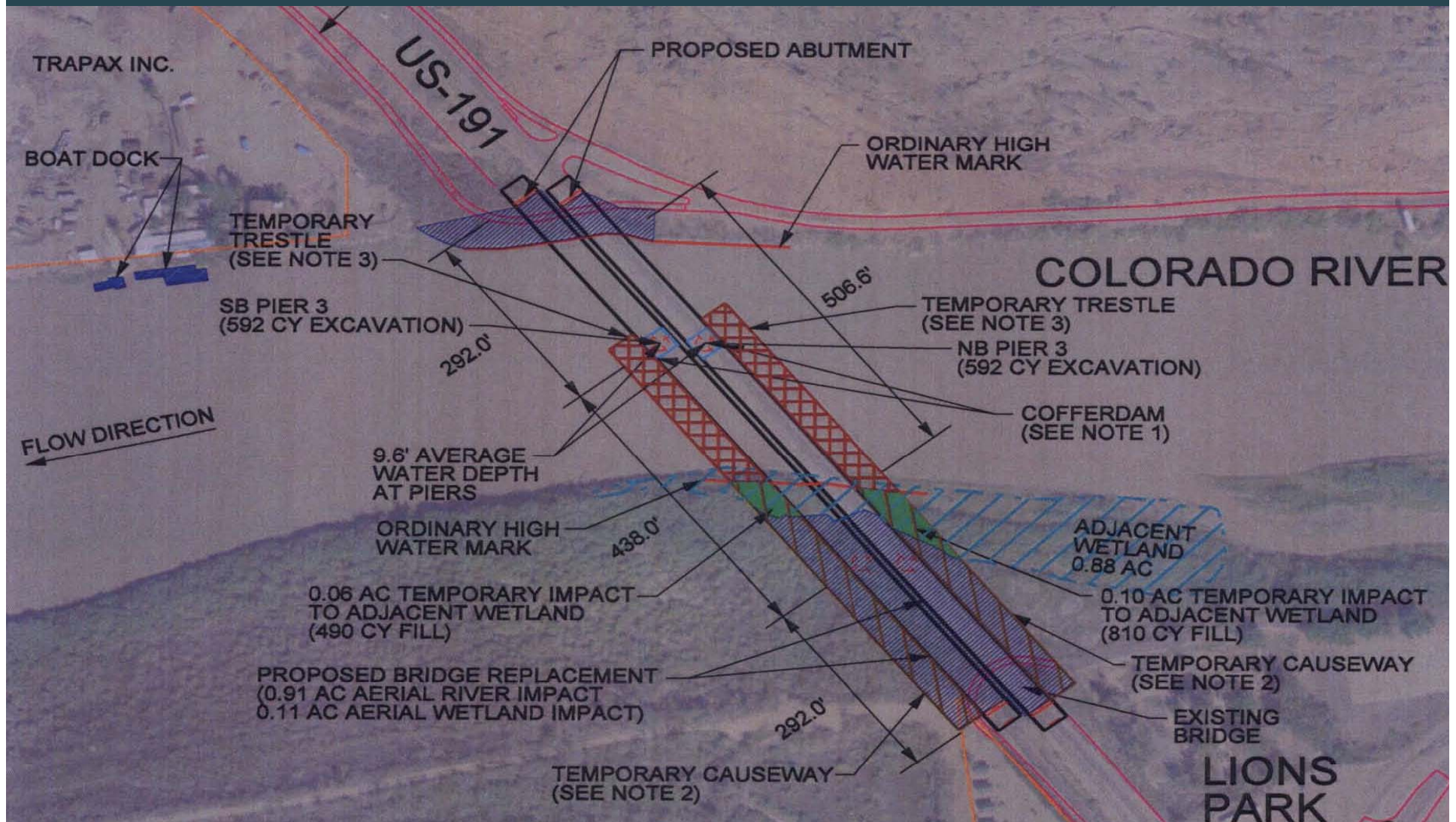
# Environmental Controls

- **Cofferdams and Work in the River**
  - Between September 1 and April 30
  - Take actions to avoid trapping fish
- **River Access**
  - Navigatable River Channel Access Maintained





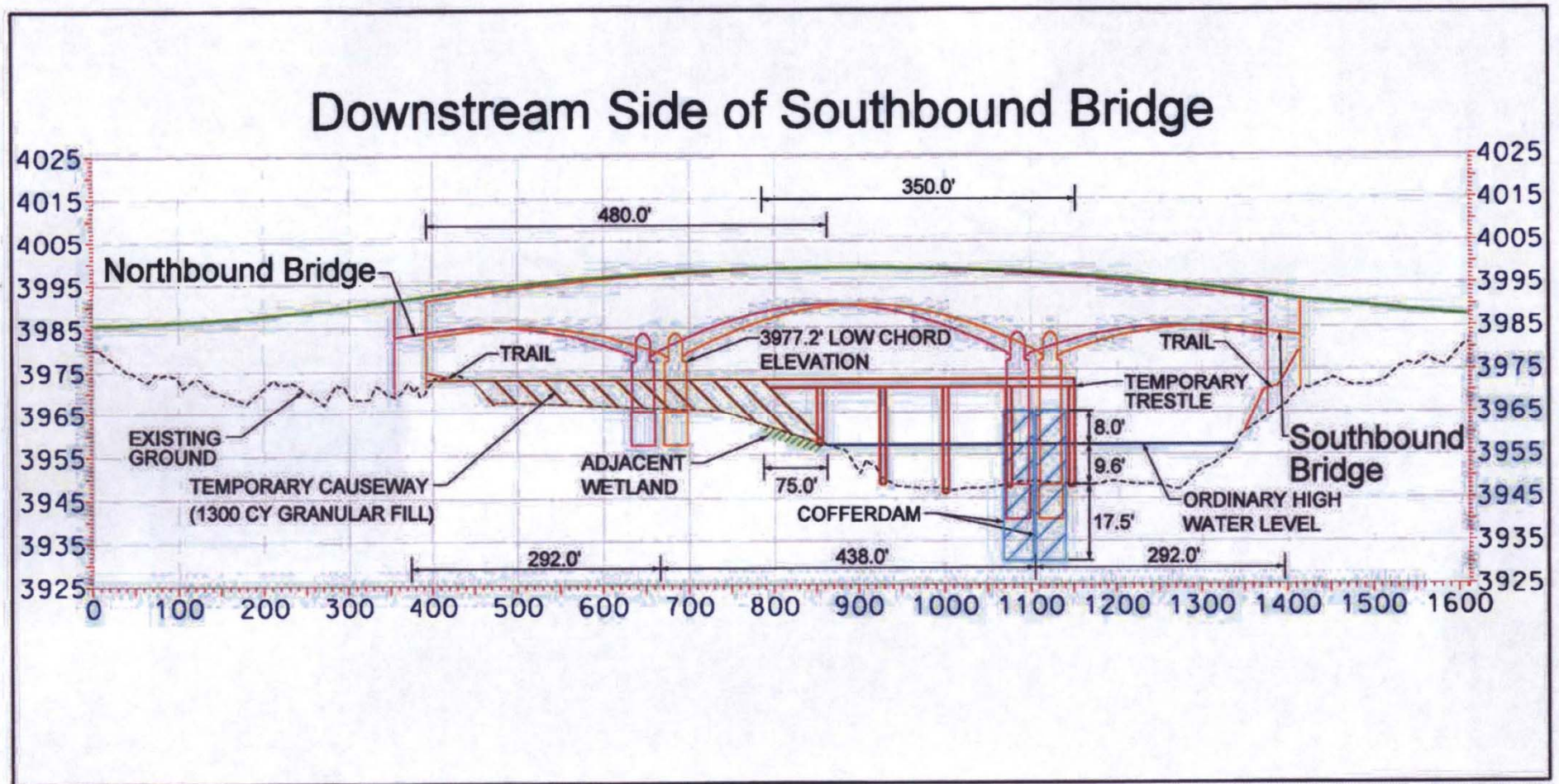
# Project 404 Permit





# Project 404 Permit

## US-191; Colorado River Bridge



N





# Environmental Controls

## **T&E Species - Southwestern Willow Flycatcher, Either:**

- **Begin Construction prior to May 1 and ensure continuous work through August 31, OR**
- **Provide qualified biologist and survey Presents during breeding season, May 1 to August 31. If present, work will be restricted within 1000' of nesting.**



# Project Controls

- **Restriction on Work that Impacts Traffic**
  - Weekends in March, April, September
  - Holiday Weekends
  - Week Prior to Easter
- **Early Completion**
  - Work in front of Moab Valley RV Resort by March 1, 2010





# Project Controls

- **MSE Retaining Wall Restrictions**
  - Plan for a 2 month wall and embankment work stoppage for settlement and embankment stability
- **Paving Limitation**
  - UBC placed 2 weeks prior to paving
  - Within 200' of bridge, UBC placed 2 months prior to paving



# Project Controls

- **Maintain Access**
  - Business access
  - County Road/Boat  
(March 1 – September 30)
  - Public Parking at Lion Park

